Approved For Release 2008/02/12 : CIA-RDP94T00858R000600890001-6 **DMINISTRATIVE-INTERNAL USE ONLY**

DATA CENTER OPERATIONS BRANCH

NDS OPERATIONS PROCEDURE MANUAL NO. P-A004

SYSTEMS SW & HW 13 April 1983

AMPERIF PREVENTATIVE MAINTENANCE

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P-A004

DATA CENTER OPERATIONS BRANCH

DCOB PROCEDURE No. PD-A-0005/83 OPERATIONS-GENERAL 26 January 1983

AMPERIF PREVENTIVE MAINTENANCE

<u>PURPOSE</u>

1. The purpose of this Procedure is to formalize a Preventive Maintenance (PM) schedule on Amperif equipment. This equipment includes Amperif Solid State Drum (SSD) and controllers, cache disc subsystem controllers, data copy, uninterrupted power source (UPS), and individual disc drives. This Procedure should be used as a reference in scheduling, performing, and tracking preventive maintenance on Amperif equipment.

REFERENCES

- 2. The following documents are applicable to the implementation of this Procedure:
 - a. CSD Plan CSD-81-0001

CSD Management Plan

b. CSD Instruction No. 50-0008

NDS Schedule of Operations

APPLICABILITY

3. All personnel responsible for the stability of the Amperif equipment. All Amperif engineers performing maintenance on Amperif equipment.

POLICY

4. The Data Center Operations Branch (DCOB) is required to maintain all NDS computers, peripheral equipment, and communications hardware as described in the CSD Management Plan (CSD-81-0001).

BACKGROUND

5. This Procedure evolved from a TEM, on 23 September 1982, attended by DCOB and Amperif maintenance personnel. All maintenance and scheduling items were agreed to by both parties.

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PROCEDURE

6. Amperif equipment PM is to be conducted as an on-going effort. To accomplish that effort PM will be performed in three phases: weekly, monthly, and semi-annually.

WEEKLY PM

7. Amperif will perform weekly PM every Wednesday from 1600 to 1700 hours except on the first Wednesday of the month. This PM will not require an outage to the NDS operational system. If the Amperif engineers discover a potential fatal problem within the Amperif hardware, they will notify the on-duty Operations Control Officer (OCO). The OCO should insure an operational system outage is scheduled as soon as possible for corrective maintenance.

MONTHLY PM

8. Amperif will perform monthly PM on the first Wednesday of the month from 1900 to 2200 hours. The Operations Support Section (OSS) is required to schedule a operational system outage for this period. Prior to Amperif PM, Data Center Operations Section (DCOS) personnel will copy the SSDs to tape. This tape will be used to verify the data copy feature of the SSDs. SSD data is to be restored from tape if the data copy does not verify correctly. Amperif will check the UPS for proper charge, check and log air flows for each disc drive, and insure proper operation of data copy feature for the SSDs and cache.

SEMI-ANNUAL PM

- 9. Amperif will perform semi-annual PM on individual disc drives, assuring all drives have been checked, voltages adjusted, cleaned, and inspected during the six-month period. This PM can be performed on-line with no operational system outage. At opportune times the DCOS will substitute a spare drive for an operational drive, on advice from the OCOs, to insure that Amperif will always have a drive to PM. The OCOs are responsible for tracking which drives have or have not had semi-annual PM.
- 10. The Operations Support Section (OSS) will notify Amperif maintenance of extended NDS computer system outages if these outages do not require use of Amperif equipment. Amperif will be scheduled to use this time to perform any maintenance they feel necessary.

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II. MONTHLY PM

- A. Insert date in block when PM is performed.
- B. Refer to PM requirement sheet for meaning of letters.

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B. Reier to PM requirement sheet for meaning of letters.

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